My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the

invention entitledMODI	FIED RIBOZ	YMES			
	•		•	the specifica	tion of which
is attached herei			•		
x was filed on	23rd Septe	mber 1991		a	s Application
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claims, as amended by any an I acknowledge the duty to with Title 37, Code of Federal	nendment referred o disclose informat I Regulations, §1.5 riority benefits und listed below and h	to above. ion which is ma 56 (a). der Title 35, Ur nave also identif	terial to the above-identified space terial to the examination of this sited States Code, §119 of any foreign application which priority is claimed:	application	in accordance
PCT/EP90/01731	PCT		12 OCTOBER 1990	x	
(Number)	(Country)		(Day/Month/Year Filed)	Yes	No
(Number)	(Country)		(Day/Month/Year Filed)	Yes	No
(Number)	(Country)		(Day/Month/Year Filed)	Yes	No
26,811; Coe A. Bloomberg, Reg. No. 2 Jansen, Reg. No. 29,395; Robert W. Di 29,898; Jeffrey M. Olson, Reg. No. 30,	6,605; J. Donald McCart ickerson, Reg. No. 29,91- 790; Steven D. Henuning	hy, Reg. No. 25,119; 4; Roy L. Anderson, R er, Reg. No. 30,755;	6,300; John D. McConaghy, Reg. No. 26,7 John M. Benassi, Reg. No. 27,483; James leg. No. 30,240; David B. Murphy, Reg. No Jerrold B. Reilly, Reg. No. 32,293; and celes, California 90017, Telephone (619) 55	H. Shalek, Reg. 5. 31,125; James	No. 29,749; Allan W
Address all telephone calls to_	RICHARD J.	WARBURG,	ESQ. at telephone no(619) 55	2-8400
Address all correspondence to	RICHARD J.	WARBURG,	ESQ., LYON & LYON Los Angeles, CA	90017.	lest Sixtl
mation and belief are believed statements and the like so ma United States Code and that issued thereon.	tatements made he to be true; and fur de are punishable such willful false	rein of my own rther that these s by fine or impostatements may	knowledge are true and that all statements were made with the krisonment, or both, under Secti jeopardize the validity of the a	statements r nowledge th on 1001 of application of	nade on infor- lat willful false Title 18 of the or any patents
			TEIN		
Inventor's signature			Da Da	le:	
Residence Holund	dersteg 6,	Gottingen	w-3400, GERMANY		
CitizenshipGERMAN		<u> </u>			
Post Office Address Holund	dersteg 6,	Gottinger	W-3400, GERMANY		

Post Office Address _____

	OLA	F HE	EINDENREICH	<u> </u>		
Full name of inventor	·			•	Date:	
Inventor's signature			a-ttingon	W-3400	Date:	
Residence	Karolinenweg	15,				
Citizenship	GERMANY					
Post Office Address	Karolinenweg	15,	Gottingen	W-3400,	GERMANY	
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Full name of inventor					D	
Inventor's signature					Date:	
Residence						
Citizenship						
Post Office Address						
Post Office Address						
Full name of inventor						
Inventor's signature					Date:	
	•					
Residence			:.		·	
Citizenship						
Post Office Address						
Full name of inventor						
Inventor's signature					Date:	
Residence						
Citizenship						

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is a	attached here	eto.						
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(Number)		(Country)	<u>-</u>		(Day/Month/Yea	ır Filed)	Yes	No
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Address all teleph	none calls to_	RICHARD J	. WAR	BURG,	ESQ. at teleph	one no. (6	611	52-8400 West Sixt
Address all corre	spondence to	Street, S	uite	3400,	Los Angele	s, CA	90017	•
mation and belie statements and t United States Co issued thereon.	f are believed he like so mode and that	I to be true; and f ade are punishab such willful fals	urther tha le by fine e stateme	at these s or impr nts may	knowledge are true tatements were mad isonment, or both, jeopardize the vali	under Section dity of the ap	n 1001 of oplication	Title 18 of the or any patents
Full name of sole	e or first inve	ntor	FRITZ	ECKS	TEIN			
Residence	Holun	dersteg 6,	Gott	ingen	W-3400, G	ERMANY		
Citizenship								
					W-3400, GE			
Post Office Add	ress							

	$\mathrm{OL}P$	AF HE	EINDENREIC	1 		
Full name of inventor					Date:	
Inventor's signature				W-3400	CERMANY	
Residence	Karolinenweg	15,	Gottingen	W-3400,	GERMANI	
Citizenship	GERMANY					
Post Office Address	Karolinenweg	15,	Gottingen	W-3400,	GERMANY	
Post Office Address	<u> </u>					
Full name of inventor						
Inventor's signature				·	Date:	
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Full name of inventor	· · · · · · · · · · · · · · · · · · ·				Date	
Inventor's signature					.,	
Residence						
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Post Office Address						
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My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the

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Serial No. PCT	/EP91/01811	an	d was amended on	 	·
claims, as amended by any am I acknowledge the duty to	endment referred to disclose information Regulations, §1.56 (iority benefits under listed below and hav	above.	tents of the above-identified special to the examination of this ited States Code, §119 of any ed below any foreign application which priority is claimed:	application	in accordance
PCT/EP90/01731	PCT		12 OCTOBER 1990	x	
(Number)	(Country)		(Day/Month/Year Filed)	Yes	No
(Number)	(Country)		(Day/Month/Year Filed)	Yes	No
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Taylor, Jr., Reg. No. 19,848; Samuel B. 24,939; William E. Thomson, Jr., Reg. 26,811; Coe A. Bloomberg, Reg. No. 20 Jansen, Reg. No. 29,395; Robert W. Dia 29,898; Jeffrey M. Olson, Reg. No. 30,7	Stone, Reg. No. 19,297; D No. 20,719; Richard E. Lyo 5,605; J. Donald McCarthy, ckerson, Reg. No. 29,914; R 790; Steven D. Henuninger,	ouglas E. Olson, F n, Jr., Reg. No. 20 Reg. No. 25,119; Oy L. Anderson, R Reg. No. 30,755; J	R. Solum, Jr., Reg. No. 20,467; James W. Reg. No. 22,798; Robert E. Lyon, Reg. No. 30,300; John D. McConaghy, Reg. No. 26,7 John M. Benassi, Reg. No. 27,483; James eg. No. 30,240; David B. Murphy, Reg. No. 42,293; and eles, California 90017, Telephone (619) 5:	24,171; Robert 773; William C. S H. Shalek, Reg. o. 31,125; James	C. Weiss, Reg. No. Steffin, Reg. No. No. 29,749; Allan W
Address all telephone calls to	RICHARD J. V	WARBURG,	ESQ - at telephone no((619) 55	2-8400
	RICHARD J. I	JARBURG.	ESQ., LYON & LYON Los Angeles, CA	1, 611 V	vest Sixt
I hereby declare that all st mation and belief are believed statements and the like so ma United States Code and that issued thereon.	atements made herei to be true; and furth de are punishable by such willful false sta	n of my own er that these s trine or improtements may	knowledge are true and that all tatements were made with the kisonment, or both, under Sectifeopardize the validity of the	statements in knowledge the fon 1001 of application of	nade on infor- nat willful false Title 18 of the or any patents
Full name of sole or first inven	torFR	ITZ ECKS	TEIN		
Inventor's signature			Da	te:	
Residence Holund	dersteg 6, G	ottingen	W-3400, GERMANY	· · · · · · · · · · · · · · · · · · ·	
CitizenshipGERMAN	1 X				
Post Office Address Holund	lersteg 6, G	ottingen	W-3400, GERMANY		

4.

	OLA	AF HE	EINDENREICH	i		
Full name of inventor					Date:	
Inventor's signature	Karolinenweg	15	Cottingen			
Residence	Karolinenweg	15,				
Citizenship	GERMANY				,	
Post Office Address	Karolinenweg	15,	Gottingen	W = 3400	GERMANY	
Full name of inventor						
Inventor's signature					Date:	
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Full name of inventor						
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Full name of inventor					Date:	•
Inventor's signature					Date.	,
Residence						
Citizenship						
Post Office Address						

WOLFGANG PIEKEN Full name of inventor _____ Date: ___ Inventor's signature ___ 2860 Wilderness Place, Boulder, CO 80301, USA Residence ____ **GERMANY** Citizenship ___ 2860 Wilderness Place, Boulder, CO 80301, USA Post Office Address _ FRITZ BENSELER Full name of inventor _____ Inventor's signature _______ Date: _____ Residence Neuendorfer Str. 14, D-37130 Gleichen/Etzborn, GERMANY GERMANY Citizenship _____ Post Office Address Neuendorfer Str. 14, D-37130 Gleichen/Etzborn, GERMANY DAVID B. OLSEN Full name of inventor _____ ___ Date: ____ Inventor's signature ____ Residence WP44-B122, West Point, PA 19486, USA USA Citizenship ____ Post Office Address WP 44-B122, West Point, PA 19486, USA DAVID M. WILLIAMS Full name of inventor ___

Inventor's signature

82 Mill End Road, Cherry Hinton, Cambridge CBl 4JP, ENGLAND

Citizenship

BRITISH

Post Office Address

82 Mill End Road, Cherry Hinton, Cambridge CBl4JP, ENGLAND

Docke o.	

ASSIGNMENT

WHEREA	S the	undersign	ned [here	einai	fter	(collec	ctively)	
"ASSIGNOR"]	have	invented	certain	new	and	useful	improvements	ir

(Title of Application)

Modified Ribozymes

for which an application for United States Letters Patent was executed concurrently herewith unless otherwise indicated.

WHEREAS (Name and address of Assignee) Max-Planck-Gesellschaft zur Förderung der Wissenschaften e.V.

Bunsenstraße 10 W-3400 Göttingen

a German corporation (hereinafter "ASSIGNEE") is desirous of acquiring the entire right, title and interest in the same:

Now, therefore, in consideration of the sum of one dollar (\$1.00), the receipt whereof is hereby acknowledged, and other good and valuable consideration, the said ASSIGNOR hereby sells, assigns and transfers unto said ASSIGNEE, full and exclusive right to the said invention in the United States and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor.

Said ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue said Letters Patent to said ASSIGNEE, as the assignee of the entire right, title, and interest in and to the same, for the sole use and for the use of its successors, legal representatives, and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by said ASSIGNOR had this assignment and sale not been made.

Witness, the hand and seal of the ASSIGNOR on the date(s) indicated.

Date(s)	Signature(s)
08.10.92	F. Eckstein
<u> </u>	Wolfgang Pieken
0810 92	In & Burnel Fritz Benseler
	David B. Olsen
	David M. William
DX 10 83	Olaf Heidenreich

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Docket	No.	
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ASSIGNMENT

WHEREAS the undersigned [hereinafter (collectively) "ASSIGNOR"] have invented certain new and useful improvements in

(Title of Application)

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Modified Ribozymes

for which an application for United States Letters Patent was executed concurrently herewith unless otherwise indicated.

WHEREAS (Name and address of Assignee)

Max-Planck-Gesellschaft zur Förderung der Wissenschaften e.V. Bunsenstraße 10 W-3400 Göttingen

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Date(s) 08.10.92		Signature(s) F. Eckstein
			Wolfgang Pieken
0210 12		Frit Bursel	_ Fritz Benseler
OF. 18.93	· 	David B.Ols	David B. Olsen
			David M. Williams
 08.10.32		O. Herdemi	Olaf Heidenreich

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Docket No.

ASSIGNMENT

WHEREAS the undersigned [hereinafter (collectively) "ASSIGNOR"] have invented certain new and useful improvements in

(Title of Application)

Modified Ribozymes

for Which an application for United States Letters Patent was executed concurrently herewith unless otherwise indicated.

WHEREAS (Name and address of Assignee)

Max-Planck-Gesellschaft zur Förderung der Wissenschaften e.V. Bunsenstraße 10 W-3400 Göttingen

German corporation (hereinafter "ASSIGNEE") is desirous of acquiring the entire right, title and interest in the same:

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Date(s)	Signature(s)		
<u>08. 10.92</u>	F. Eckstein		
	Wolfgang Pieken		
CV90. 92	In & Bursel Fritz Benseler		
	David B. Olsen		
08.10!92	Javid M. Williams		
08 10 32	C. Her denne Olaf Heidenreich		

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Modified Ribozymes

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Date(s)	Signature(s)			
08. 60.92	F. Eckstein:			
08,10,92	Wolfgang Pieken			
01.10.12	In & Genrel Fritz Benseler			
	David B. Olsen			
	David M. Williams			
08.10.32	O. Herdemi Olaf Heidenreich			

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Address all correspondence to	RICHARD J. Street, Su	WARBURG, ite 3400,	ESQ., LYON & LYON Los Angeles, CA	, 611 v	Vest Sixth
mation and belief are believed to	to be true; and fur te are nunishable	ther that these s	knowledge are true and that all tatements were made with the k isonment, or both, under Section jeopardize the validity of the a	nowledge ti on 1001 of	Title 18 of the
Full name of sole or first invent	orF	RITZ ECKS	TEIN		
Inventor's signature	is lill	<u></u>	W-3400, GERMANY	e: <u>~</u> <u>~</u> <u>~</u> .	07.93
Residence Holund	ersteg 6,	Gottingen	W-3400, GERMANY		
Citizenship GERMAN	Y				
Post Office Address Holund	ersteg 6,	Gottingen	W-3400, GERMANY		

Full name of inventor	WOLFGANG PIEKEN			
Inventor's signature		Date: 7/27/93		
Residence	2860 Wilderness Place, Boul			
Citizenship	GERMANY			
	2860 Wilderness Place, Boul	lder, CO 80301, USA		
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Full name of inventor_	FRITZ BENSELER			
		Date:		
Residence	Meuendorfer Str. 14, D-3713	30 Gleichen/Etzborn, GERMANY		
Citizenship	GERMANY			
Post Office Address	Neuendorfer Str. 14, D-3713	30 Gleichen/Etzborn, GERMANY		
•				
Full name of inventor _	DAVID B. OLSEN			
Inventor's signature				
	WP44-Bl22, West Point, PA			
Citizenship	USA			
	WP 44-Bl22, West Point, PA	19486, USA		
		•		
Full name of inventor _	DAVID M. WILLIA	MS		
		Date:		
_		on, Cambridge CBl 4JP, ENGLAND		
Citizenship				
Post Office Address 82 Mill End Road, Cherry Hinton, Cambridge CB14JP, ENGLAND				



Full name of inventor _	WOLFGANG PIEKEN					
Inventor's signature	Date:					
Residence	2860 Wilderness Place, Boulder, CO 80301, USA -					
Citizenship	GERMANY					
	2860 Wilderness Place, Boulder, CO 80301, USA					
Full name of inventor _	FRITZ BENSELER					
Inventor's signature	Int Borsele Date: 29.7.93					
Residence	Meuendorfer Str. 14, D-37130 Gleichen/Etzborn, GERMANY					
Citizenship						
	Neuendorfer Str. 14, D-37130 Gleichen/Etzborn, GERMANY					
	DAVID B. OLSEN					
	Date:					
	WP44-B122, West Point, PA 19486, USA					
Citizenship						
Post Office Address	WP 44-B122, West Point, PA 19486, USA					
Full name of inventor _	DAVID M. WILLIAMS					
	Date:					
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Citizenship	BRITISH					
	82 Mill End Road, Cherry Hinton, Cambridge CB14JP, ENGLAND					

Full name of inventor	WOLFGANG PIEKEN
Inventor's signature	Date:
Residence	2860 Wilderness Place, Boulder, CO 80301, USA
	GERMANY
1	2860 Wilderness Place, Boulder, CO 80301, USA
Post Office Address	
	FRITZ BENSELER
Full name of inventor _	Date:
	Meuendorfer Str. 14, D-37130 Gleichen/Etzborn, GERMANY
Citizenship	
Post Office Address	Neuendorfer Str. 14, D-37130 Gleichen/Etzborn, GERMANY
·	
Full name of inventor	DAVID B. OLSEN
Inventor's signature	Dave B Clise Date: 7/27/93
Residence	WP44-B122, West Point, PA 19486, USA
Citizenship	USA
	WP 44-B122, West Point, PA 19486, USA
	•
Full name of inventor _	DAVID M. WILLIAMS
	Date:
	Mill End Road, Cherry Hinton, Cambridge CBl 4JP, ENGLAND
Citizenship	BRITISH
Post Office Address	32 Mill End Road, Cherry Hinton, Cambridge CB14JP, ENGLAND

		OLAF HI	ETNDENREICH	1 2 Y.	7.73	0.60
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nventor's signature		Ancho	mec		Date: _ .CERMAN	v -
Residence	Karőline	nweg 15,	Gottingen	W-3400,	GEIGER	
Citizenship	GERMANY				 -	
ost Office Address	Karoline	nweg 15,	Gottingen	W-3400,	GERMAN	Υ
Full name of inventor						
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